

Serial No. 10/037,588

LISTING OF THE CLAIMS

1 1. (Currently Amended) A method for ~~doing~~ performing call
2 classification ~~on a call to~~ for a destination endpoint on a call, comprising
3 the steps of:
4 receiving audio information from the destination endpoint;
5 analyzing using automatic speech recognition analysis
6 calculations the received audio information for ~~a first type of classification~~
7 words;
8 analyzing using the automatic speech recognition analysis
9 calculations the received audio information for ~~a second type of~~
10 classification wherein the ~~second type of classification is for identification~~
11 tones ~~in the audio information~~; and
12 determining a call classification for the destination endpoint in
13 response to the analysis of the words ~~first type of classification~~ and the
14 analysis of the tones ~~second type of classification~~.

1 2. (Canceled).

1 3. (Canceled).

1 4. (Currently Amended) The method of claim 2 1 wherein the
2 analysis for ~~the second type of classification~~ tones is analyzing the audio
3 information for identifying a set of tones.

1 5. (Canceled)

1 6. (Currently Amended) The method of claim 1 5 wherein the
2 step of analyzing for words ~~the first type of classification~~ is responsive to
3 ~~the detection of speech in~~ the audio information to enable the step of

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4 executing a Hidden Markov Model to determine the presence of words in
5 the audio information.

1 7. (Original) The method of claim 6 wherein the step of
2 executing comprises the step of using a grammar for speech.

1 8. (Currently Amended) The method of claim 6 wherein the
2 step of analyzing for tones ~~the second type of classification~~ is responsive
3 to ~~the detection of tone in~~ the audio information to enable the step of
4 executing a Hidden Markov Model to determine the presence of tones in
5 the audio information.

1 9. (Original) The method of claim 8 wherein the step of
2 executing comprises the step of using a grammar for tones.

1 10. (Original) The method of claim 8 wherein the step of
2 determining comprises the step of executing an inference engine.

1 11. (Currently Amended) A method for ~~doing~~ performing call
2 classification ~~on a call to~~ for a destination endpoint on a call, comprising
3 the steps of:
4 receiving audio information from the destination endpoint;
5 detecting for speech ~~or tones~~ in received audio information;
6 analyzing using automatic speech recognition the received
7 audio information for words in response to the detection of speech
8 indicating a presence of speech;
9 analyzing using automatic speech recognition the received
10 audio information for ~~identification of~~ tones in response to the detection of
11 speech indicating an absence of speech tones; and

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12 determining a call classification for the destination endpoint in
13 response to the analysis of words or the analysis of tones.

1 12. (Original) The method of claim 11 wherein the step of
2 analyzing for speech comprises the step of executing a Hidden Markov
3 Model to determine the presence of words in the audio information.

1 13. (Original) The method of claim 12 wherein the step of
2 executing comprises the step of using a grammar for speech.

1 14. (Original) The method of claim 12 wherein the step of
2 analyzing for tones comprises the step of executing a Hidden Markov
3 Model to determine the presence of tones in the audio information.

1 15. (Original) The method of claim 14 wherein the step of
2 executing comprises the step of using a grammar for tones.

1 16. (Original) The method of claim 15 wherein the step of
2 determining comprises the step of executing an inference engine.

1 17. (Currently Amended) A method for ~~doing~~ performing call
2 classification by a automatic speech recognition unit ~~on a call~~ to a
3 destination endpoint on a call, comprising the steps of:
4 receiving audio information from the destination endpoint by the
5 automatic speech recognition unit;
6 analyzing using automatic speech recognition analysis
7 calculations the received audio information for words ~~a first type of~~
8 ~~classification~~ by the automatic speech recognition unit;
9 analyzing using the automatic speech recognition analysis
10 calculations the received audio information for tones ~~a second type of~~

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11 ~~classification wherein the analysis for the second type of classification is~~
12 ~~analyzing the audio information for identification of tones by the~~
13 ~~recognition unit; and~~
14 determining a call classification for the destination endpoint in
15 response to the analysis for words ~~of the first type of classification~~ and the
16 analysis for tones ~~of the second type of classification~~ by the automatic
17 speech recognition unit.

1 18. (Canceled).

1 19. (Original) The method of claim ~~17~~ 48 wherein the analyzed
2 words are formed as phrases.

1 20. (Withdrawn)

1 21. (Canceled).

1 22. (Currently Amended) The method of claim ~~24~~ 17 wherein
2 the step of analyzing for words ~~the first type of classification~~ is responsive
3 ~~to the detection of speech in~~ the audio information to enable the step of
4 executing a Hidden Markov Model to determine the presence of words in
5 the audio information.

1 23. (Original) The method of claim 22 wherein the step of
2 executing comprises the step of using a grammar for speech.

1 24. (Currently Amended) The method of claim 22 wherein the
2 step of analyzing for words ~~the second type of classification~~ is responsive
3 ~~to the detection of tone in~~ the audio information to enable the step of

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4 executing a Hidden Markov Model to determine the presence of tones in
5 the audio information.

1 25. (Original) The method of claim 24 wherein the step of
2 executing comprises the step of using a grammar for tones.

1 26. (Original) The method of claim 24 wherein the step of
2 determining comprises the step of executing an inference engine.

1 27. (Currently Amended) A call classifier for determining the
2 call classification of a called destination endpoint, comprising:
3 an automatic speech recognizer for identifying detecting words
4 ~~first characteristics~~ in audio information received from the called
5 destination endpoint;
6 the automatic speech recognizer further identifying tones in the
7 audio information received from the called destination endpoint; and
8 inference engine for classifying the call in response to the
9 automatic speech recognizer.

1 28. (Canceled).

1 29. (Currently Amended) The call classifier of claim 27 28
2 wherein the words are formed into phrases.

1 30. (Withdrawn)

1 31. (Previously Presented) The call classifier of claim 27
2 wherein the automatic speech recognizer is executing a Hidden Markov
3 Model.